

Structural Model as CRS Guide

Do you have Information from wells, geological backstripping and surface dips of your survey or even a structural model?

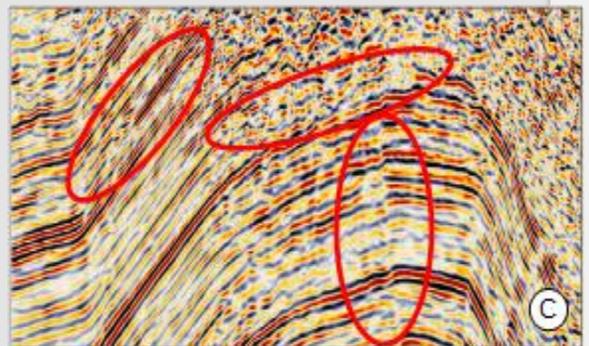
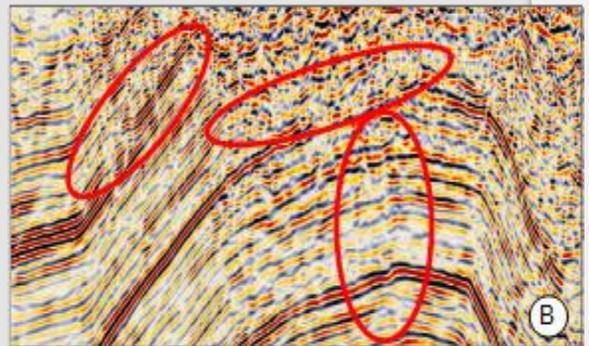
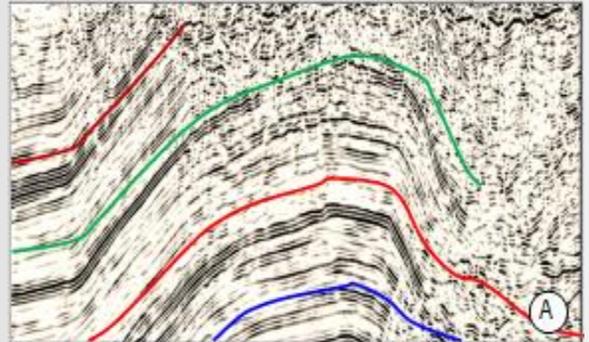
Use them!

Additional Information from the subsurface can be used as a guide for seismic processing.

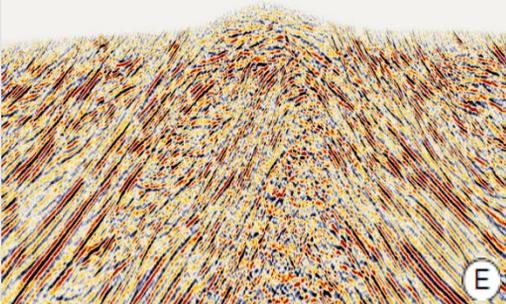
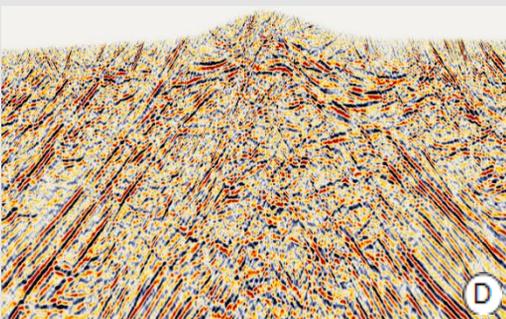
The structural CRS uses a geological model as a steering tool to determine the CRS attributes more precisely. The structural model can be derived from all kinds of information like wells, surface dips or geological backstripping. During CRS these information are used as a guide function where the CRS application is searching for highest coherency values within the direct vicinity. Structural CRS works on all kinds of seismic data.

The 3D land seismic data example on the right shows a strong uplift within the highlighted areas.

The CRS result is much cleaner and the reflections show much better continuity. However, structural CRS does not eliminate faults but improves it, as shown in the examples above.



Structural interpretation with 3D land seismic (A). 3D Kirchhoff PSTM on CRS Gathers (B). 3D Kirchhoff PSTM on structural CRS Gathers (C).



2D depth migration on standard CRS Gathers (D). 2D depth migration on structural CRS Gathers (E).